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MONTANA SCHOOL OF MINES

MONTANA OIL AND GAS STATISTICAL BULLETIN

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OIL AND GAS CONSERVATION COMMISSION

SAVINGS BLDG.
HELENA, MONTANA

Vol. IX, No. 8 — MONTANA RECORD PUBLISHING CO. HELENA, MONTANA — AUGUST, 1961

Production of crude oil and condensate from the oil and gas areas of Montana for the Month of August 1961, averaged 87,025 barrels daily, an increase of 1,739 barrels from the average July production of 85,286.

The nine refineries in the State processed 74,019 barrels of crude oil daily for the month of August, 1961, an increase of 423 barrels from the 73,596 barrels processed daily during the month of July, 1961.

During August, 31 wells were completed, 13 oil, 0 gas wells and 18 dry holes.

During August, the commission issued 47 permits to drill new wells, an increase of 7 from the 40 permits issued during July.

SUMMARY OF CRUDE OIL PRODUCTION REFINING, STORAGE, ETC., IN MONTANA

MONTH OF AUGUST, 1961

IN STORAGE AUGUST 1st:	
By Producers	383,399
By Transporters	870,967
By Refiners	692,789
TOTAL STORAGE	1,947,155
Produced in Montana During Month	2,697,794
Imported During Month	1,421,942
TOTALS	6,066,891
DISPOSITION:	
Refined in Montana	2,294,591
Exported	1,714,396
Used for Fuel or Lost	7,050
TOTAL	4,016,037
IN STORAGE AUGUST 31st:	
By Producers	376,992
By Transporters	934,654
By Refiners	739,208
TOTAL STORAGE	2,050,854

NATURAL GAS WITHDRAWALS IN MONTANA

Month of August, 1961

Field	M Cu. Ft.
Bears Den	18,944
Big Coulee	29,017
Bowdoin	41,191
Bowes	11,911
Box Elder	0
Cabin Creek	94,443
Cedar Creek	160,195
Clarks Fork	0
Cut Bank (including Reagan)	474,138
Devon	13,951
Dry Creek	64,515
Elk Basin	22,586
Flat Coulee	2,797
Golden Dome	0
Grandview	27,121
Hardin	3,183
Havre	997
Keith Block	26,468
Kevin Sunburst	54,770
Pine	71,971
Plevna	11,545
Utopia	0
Whitlash	103,090
Miscellaneous	43,126
TOTAL	1,275,959

Total Withdrawals for August, 1960 were 1,524, 192 M Cu. Ft.

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PRODUCER'S REPORT
MONTH OF AUGUST, 1961

Leases	Field	No. of Wells	Storage 1st of Month	Oil Produced	Oil Shipped By		Used or Lost	Storage End of Month
					Pipeline	Truck		
1	Ash Creek	4	415	2,363	----	1,722	----	1,056
5	Bannatyne	13	2,105	1,181	----	1,181	235	1,870
1	Belfry	1	310	1,305	----	1,362	----	253
9	Big Wall	26	4,732	50,572	36,521	14,570	30	4,183
12	Blackfoot	15	4,516	8,357	8,931	----	8	3,934
1	Border	1	165	6	----	155	----	16
1	Bowes	74	6,440	22,380	23,793	----	(123)	5,150
2	Brady	2	----	150	----	150	----	----
2	Bredette, North	2	1,304	1,122	1,364	----	----	1,062
2	Brorson	2	2,779	2,042	2,337	----	441	2,043
2	Cabin Creek	104	6,356	339,780	338,580	----	----	7,556
22	Cat Creek	93	5,707	16,708	18,583	----	----	3,832
1	Clark's Fork, North	2	2,197	946	----	500	----	2,643
1	Cupton	1	878	1,213	1,293	----	----	798
371	Cut Bank	1,066	133,165	167,555	171,731	----	88	128,901
3	Deer Creek	6	1,591	21,448	21,638	----	----	1,401
2	Delphia	2	1,083	815	1,242	----	----	656
----	Devil's Basin	----	889	----	----	----	----	889
3	Dry Creek	3	1,075	1,377	1,790	----	----	662
13	Dwyer	13	6,649	32,020	----	30,688	835	7,146
7	Elk Basin	52	3,127	258,895	258,279	----	933	2,810
----	Fertile Prairie	----	168	----	----	----	----	168
2	Frannie	2	344	1,808	1,605	----	----	547
2	Gage	2	797	732	792	----	(2)	739
4	Gas City	10	2,866	44,255	43,423	----	----	3,698
6	Glendive	11	3,912	52,258	53,842	----	----	2,328
4	Gypsy Basin	4	1,243	1,051	1,108	----	----	1,186
2	Hibbard	2	892	2,531	----	2,464	----	959
10	Ivanhoe	18	7,238	37,010	38,241	----	49	5,958
5	Keg Coulee	10	4,471	62,606	62,643	----	----	4,434
166	Kevin-Sunburst	950	15,554	50,644	45,030	----	----	21,168
1	Little Beaver	21	4,235	39,852	39,715	----	----	4,372
3	Little Beaver, East	10	4,555	32,220	32,932	----	----	3,843
----	Mackay Dome	----	770	----	----	----	----	770
3	Melstone	7	1,887	2,603	3,295	----	----	1,195
5	Monarch	13	4,946	29,395	28,284	----	----	6,057
----	Mosser	----	200	----	----	----	----	200
7	Outlook	11	9,806	39,127	40,217	----	----	8,716
3	Outlook, South	3	1,264	3,414	2,821	----	----	1,857
16	Pennel	27	9,595	80,957	49,192	31,664	----	9,696
5	Pine	148	14,014	468,224	469,118	----	----	13,120
81	Pondera	308	9,678	42,565	42,578	----	----	9,665
7	Poplar, East	90	20,487	213,233	209,345	----	35	24,340
3	Poplar, Northwest	4	2,064	1,859	2,133	----	----	1,790
4	Ragged Point	9	3,392	11,598	11,989	----	----	3,001
3	Reagan	27	3,630	11,622	12,587	----	----	2,665
8	Red Creek	18	6,259	22,453	2,712	19,544	----	6,456
1	Redstone	1	669	1,026	1,323	----	----	372
1	Repeat	1	420	1,750	1,924	----	----	246
7	Richey	11	5,087	9,819	10,431	----	----	4,475
2	Richey, Southwest	2	1,291	5,579	4,886	----	----	1,984
4	Sand Creek	5	4,087	16,979	17,720	----	----	3,346
2	Sidney	2	1,933	1,610	2,102	----	----	1,441
2	Snyder	4	972	1,621	----	2,032	----	561
4	Soap Creek	8	3,382	6,340	----	7,517	----	2,205
10	Stensvad	26	10,004	149,344	149,656	----	----	9,692
27	Sumatra	91	15,000	206,459	205,961	----	97	15,401
7	Sweetgrass Hills	7	2,770	4,990	----	4,635	----	3,125
5	Tule Creek	7	4,411	37,924	39,068	----	----	3,267
11	Whitlash	22	6,068	10,837	10,411	----	----	6,494
10	Wills Creek	16	3,311	33,717	33,093	----	----	3,935
10	Wolf Springs	19	3,363	25,638	24,870	----	----	4,131
2	Woodrow	2	881	1,909	2,262	----	----	528
916		3,411	383,399	2,697,794	2,583,391	118,184	2,626	376,992

Total Oil Produced and Shipped from Lease	Bbls. Produced	Daily Average	Bbls. Shipped	Daily Average
Year, 1960	30,239,915	82,849	30,213,359	82,776
First Quarter, 1961	7,439,465	82,660	7,441,654	82,685
Second Quarter, 1961	7,543,737	82,896	7,508,896	82,515
July, 1961	2,643,890	85,286	2,637,359	85,076
August, 1961	2,697,794	87,025	2,701,575	87,147

Oil in Storage	In Producers Field Tank	In Transporters Storage	In Refiners Storage*	Total Oil in Storage
December, 1960	359,360	669,036	652,546	1,680,942
March, 1961	348,087	721,005	636,988	1,706,080
June, 1961	377,538	887,739	701,122	1,966,400
July, 1961	383,399	870,967	692,789	1,947,155
August, 1961	376,992	934,654	739,208	2,050,854

*Includes Wyoming Oil

TRANSPORTERS REPORT
MONTH OF AUGUST, 1961

	Storage First of Month	OIL RECEIVED BY			Loss or Gain	OIL SHIPPED TO			Storage End of Month
		Pipeline	Truck	Connecting Carrier		Montana	Other States	Connecting Carrier	
ASH CREEK—Truck			1,722				1,722		
BANNATYNE—Truck			1,181			1,181			
BELFRY—Truck			1,362				1,362		
BIG WALL									
Glacier Pipe Line Co.		36,521					36,521		
Truck			14,570			14,570			
		36,521	14,570			14,570	36,521		
BLACKFOOT—Union Oil Co.		8,931				8,931			
BORDER—Truck			155			155			
BOWES—Texaco, Inc.		23,793				23,793			
BRADY—Truck			150			150			
BRORSON—Sun Oil Co.		2,337					2,337		
CABIN CREEK & OTHERS*									
Butte Pipe Line Co.	308,251	982,254	31,664	567,579			1,565,719		324,029
Shell Pipe Line Corp.	2,623	190,758			(322)			188,870	4,833
	310,874	1,173,012	31,664	567,579	(322)		1,565,719	188,870	328,862
CAT CREEK—									
Glacier Pipe Line Co.		19,708					19,708		
CLARK'S FORK—Truck			500				500		
CUT BANK—									
Big West Oil Co.				10,872		10,872			
Darling Gathering System, Inc.	6,369	7,681			1			7,123	6,926
Glacier Pipe Line Co.				36,843			36,843		
Phillips Petroleum Co.	105,736	57,554		28,964	1,458	72,277		13,785	104,734
Texas Pipe Line Co.	48,138	61,544		6,509	595			53,705	61,891
Toronto Pipe Line Co.	59,231	45,828			19			46,794	58,246
Union Oil Co.	105,798	40,773		31,095	31	47,085			130,550
	325,272	213,380		114,283	2,104	130,234	36,843	121,407	362,347
DELPHIA—Glacier Pipe Line Co.		1,243					1,243		
DRY CREEK—									
Marathon Pipe Line Co.	6,223	1,790			2				8,011
Dwyer—Truck			30,688				30,688		
ELK BASIN—Ohio Oil Co.		258,279				186,439	71,840		
FRANNIE—Ohio Oil Co.		1,604					1,604		
GAGE—Glacier Pipe Line Co.		782					782		
GLENDIVE, DEER CREEK, WOODROW & SAND CREEK									
The Texas Pipe Line Co.	11,091	94,310			47	3,829	33,005	55,166	13,354
HIBBARD—Truck			2,464				2,464		
IVANHOE—Glacier Pipe Line Co.		39,030					39,030		
KEG COULEE—									
Glacier Pipe Line Co.		63,470				28,516	34,954		
KEVIN-SUNBURST—									
Big West Oil Co.	2,752	46,677				46,565			2,864
Homestake Oil & Gas Co.	5,206	2,046		7,123		9,214			5,161
The Texas Pipe Line Co.	5,696	15,531			25	15,506			5,696
	13,654	64,254		7,123	25	71,285			13,721
MELSTONE—									
Glacier Pipe Line Co.		5,648					5,648		
PONDERA—Phillips Petr. Co.	51,147	44,699			(507)	60,420			35,933
POPLAR, BREDETTE, OUTLOOK, OUTLOOK SOUTH, REDSTONE, RICHEY & TULE CREEK									
East Poplar Gathering System	13,321	326,103			(702)			323,542#	16,584
RAGGED POINT—									
Glacier Pipe Line Co.		17,179					17,179		
REAGAN—Union Oil Co.		12,587				12,587			
RED CREEK—									
Union Oil Co.		2,712				2,712			
Truck			19,544				19,544		
		2,712	19,544			2,712	19,544		
SIDNEY—Sun Oil Co.		2,102					2,102		
SNYDER—Truck			2,032				2,032		
SOAP CREEK—Truck			7,517				7,517		
SUMATRA AND STENSVAD—									
Crude Oil Pipe Line, Inc.	24,450	30,363			28	29,356			25,429
Glacier Pipe Line Co.	100,219	325,325			2,505	296,809			126,230
	124,669	355,688			2,533	326,165			151,659
SWEETGRASS HILLS—Truck			4,635			4,635			
WHITLASH—									
Big West Oil Co.		9,053				9,053			
Union Oil Co.		1,358				1,358			
		10,411				10,411			
WOLF SPRINGS—									
Crude Oil Pipe Line, Inc.	14,716	23,627			69	34,091			4,183
TOTALS	870,967	2,803,200	118,184	688,985	3,249	920,104	1,934,344	688,985	934,654

*Cabin Creek, Cupton, Fertile Prairie, Gas City, Little Beaver, Little Beaver East, Monarch, Pennel, Pine, Repeat, Richey, Southwest Richey, and Wills Creek Fields.

#Transferred to Butte Pipe Line Company.

BARRELS OF CRUDE OIL REFINED IN MONTANA
MONTH OF AUGUST, 1961

Field	Big West Oil Co.	Continental Oil Co.	Diamond Asphalt Co.	Farmers Union	Humble Oil & Ref. Co.	Jet Fuel Refinery	Phillips Petr. Co.	Texaco Inc.	Union Oil Co.	Total
Big Wall						7,500				7,500
Blackfoot									7,836	7,836
Bowes			20,191							20,191
Cat Creek		9,503		6		3,000				12,509
Cut Bank	10,872						72,001		47,645	130,518
Dry Creek				111						111
Elk Basin		58,204			128,235					186,439
Kevin-Sunburst	31,148									31,148
Pondera							59,874			59,874
Reagan									12,587	12,587
Red Creek									2,712	2,712
Sumatra & Stensvad		285		174,923	206,611					381,819
Whitlash									815	815
Wolf Springs					18,590					18,590
Total Montana Oil	42,020	67,992	20,191	175,040	353,436	10,500	131,875		71,595	872,649
Canadian Oil Imported			3,579						1,036	4,615
Wyoming Oil Imported		338,552		396,394	682,381					1,417,327
Total Mont., Canadian & Wyoming Oil	42,020	406,544	23,770	571,434	1,035,817	10,500	131,875		72,631	2,294,591

AVERAGE BARRELS PER DAY

	Montana	Canada	Wyoming	TOTAL
Year, 1960	28,852	56	39,406	68,314
August, 1960	27,331	107	46,020	73,458
August, 1961	28,150	149	45,720	74,019

PERCENTAGE OF CRUDE OIL REFINED

Montana	Canada	Wyoming
42.23%	.09%	57.68%
37.20%	.15%	62.65%
38.03%	.21%	61.76%